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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,992	10/24/2003	Yoshihiro Hirasaka	JP920020171US1	1754
48583	7590	07/27/2005	EXAMINER	
BRACEWELL & PATTERSON, LLP PO BOX 61389 HOUSTON, TX 77208-1389			EVANS, JEFFERSON A	
			ART UNIT	PAPER NUMBER
			2652	

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/692,992

Applicant(s)

HIRASAKA ET AL.

Examiner

Jefferson A. Evans

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 February 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Claims 1 to 16 are pending.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The abstract of the disclosure is objected to because in line 4, "combined" should be -- combining --. Correction is required. See MPEP § 608.01(b).
3. The title of the invention is not adequately descriptive. A new title is required that is more clearly indicative of the invention to which the claims are directed by making reference to the plate disposed near the coil for radiating heat.

Drawings

4. The drawings are objected to because figures 4 and 5 are missing labels for the data curves that are part of the graphs. The original figures appeared to include such labels in Japanese but the replacement figures deleted the Japanese labels without adding equivalent English labels.. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be

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removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-3, 7-9, 11, 12, 14, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Adams et al (U.S. 6,078,477). Adams discloses a disk drive rotary head actuator that includes a heat transfer plate (170) disposed adjacent a coil (182) and which covers part of the coil. An end (172) of the plate is disposed near the pivot shaft (158). The main part of the plate has a rectangular cross-section. The heat transfer plate is mechanically joined to the pivot shaft and thus can be considered integral with the pivot shaft.

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7. Claims 1, 3, 4, 5, 7, are 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Ycas (4,775,908). Ycas discloses a disk drive rotary head actuator that includes plates (36,38)) disposed adjacent a coil (44) and which cover part of the coil and are on opposite sides of the coil. Plate 36 in particular is disposed near the pivot shaft (158). The plates are mechanically joined with a pivot shaft (16) and therefor can be considered integral with the pivot shaft. The plates have rectangular cross-sections.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Adams et al in view of Ratliff et al (U.S. 6,181,530). Adams does not disclose his heat transfer plate as being grooved.

Ratliff discloses a disk drive rotary actuator coil provided with a heat sink (20) that is grooved.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the heat transfer plate of Adams with grooves. The motivation would have been: It was well known to provide heat sinks with fins or grooves so as to increase surface area and thereby improve the radiation of heat away from the heat sink.

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10. Claims 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adams et al in view of Ycas. Adams does not disclose his heat transfer plate as being adhesively bonded to the pivot shaft, but rather discloses the use of a fastener 176 that interfaces with an opening in the E-block.

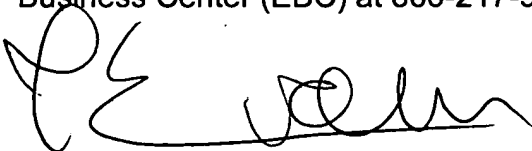
Ycas discloses a member 32 joined to a pivot shaft 16 and discloses that adhesive is an alternative to fasteners such as screws (column 5 – lines 33 to 38).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize adhesive to join the heat transfer plate of Adams to the pivot shaft. The motivation would have been: it was recognized in a wide variety of arts, including the disk drive rotary actuator art, that adhesive was an alternative to mechanical couplers such as screws.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JAE - July 25, 2005

Jefferson A. Evans
Primary Examiner
Art Unit 2652

**JEFFERSON EVANS
PRIMARY EXAMINER**